

Preliminary Amendment

Applicant: Glenn Gaarder et al.

Serial No.: Unknown (Parent Serial No. 09/880,407)

Filed: Herewith (Parent Filing Date: 06/13/01)

Docket No.: 10007121-4

Title: REPLACEABLE ROLLER BOGIE FOR DOCUMENT FEEDING APPARATUS

IN THE CLAIMS

Please cancel claims 1-21 without prejudice.

Please add claims 22-36 as follows:

1-21. (Canceled)

22. (New) A roller bogie for a single sheet feeder, said bogie comprising:

- a) a frame including a bogie positioning lever extending from said frame;
- b) a pre-feed roller rotatably supported on said frame;
- c) a single sheet separation roller rotatably supported on said frame; and
- d) roller drive gears rotatably mounted on said frame, and
- e) axially aligned spaced bogie support bearings on said frame,

said bearings being configured for reception in spaced bogie supports in a single sheet feeder.

23. (New) The roller bogie of claim 22, wherein said frame is comprised of a pair of spaced side plates and at least one cross piece interconnecting said side plates, said pre-feed roller and said separation roller being supported between said side plates for rotation about parallel axes.

24. (New) The roller bogie of claim 23, wherein said bogie support bearings are coaxial with said separation roller.

25. (New) The roller bogie of claim 24, wherein said bogie positioning lever extends from said frame in a direction generally parallel to and spaced from a line connecting the axes of rotation of said rollers.

26. (New) The roller bogie of claim 24, further comprising a gear retainer affixed to one of said side plates, said gears being mounted between said gear retainer and said one side plate.

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27. (New) The roller bogie of claim 26, further comprising a pre-feed roller drive gear connected to said pre-feed roller and a pre-feed roller clutch gear engageable with said pre-feed roller drive gear and wherein rotary power delivered in a forward direction to said gears causes said clutch gear to engage with said pre-feed roller drive gear to rotate said pre-feed roller in a sheet delivery direction.

28. (New) The roller bogie of claim 27, wherein said pre-feed roller clutch gear is mounted on an axle received in slots in said gear retainer and said one side plate, said slots having seats which are engaged by said axle to prevent over engagement of said clutch gear and said pre-feed roller drive gear.

29. (New) The roller bogie of claim 28, wherein rotary power delivered in a reverse direction to said gears causes said clutch gear to disengage from said pre-feed roller drive gear.

30. (New) The roller bogie of claim 29, wherein said pre-feed roller is connected by said gears to said separation roller such that said pre-feed roller is under driven in said forward direction at a surface speed slower than the surface speed of said separation roller.

31. (New) The roller bogie of claim 30, further comprising a drag spring frictionally dragging between said side plate and said pre-feed roller to build up dwell.

32. (New) The roller bogie of claim 31, wherein said slots extend in a direction such that said clutch gear disengages from said pre-feed roller drive gear during rotation of said gears in a reverse direction and engages with said pre-feed roller drive gear during rotation of said gears in a forward direction.

33. (New) The roller bogie of claim 32, wherein said slots are configured such that said clutch gear is continuously engaged with another one of said gears.

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34. (New) The roller bogie of claim 33, wherein said clutch gear has elastomeric teeth thereon.

35. (New) The roller bogie of claim 30, wherein said roller drive gears include a separation roller drive gear and further comprising at least one intermediate gear engaged with said separation roller drive gear and with said pre-feed roller clutch gear.

36. (New) The roller bogie of claim 22, wherein said stack damper has a weight heavy enough to prevent buckling of thin media sheets, said stack damper being restrained in upward movement by said frame to impart a slight bend to thick media sheets during sheet movement imparted by said pre-feed roller.